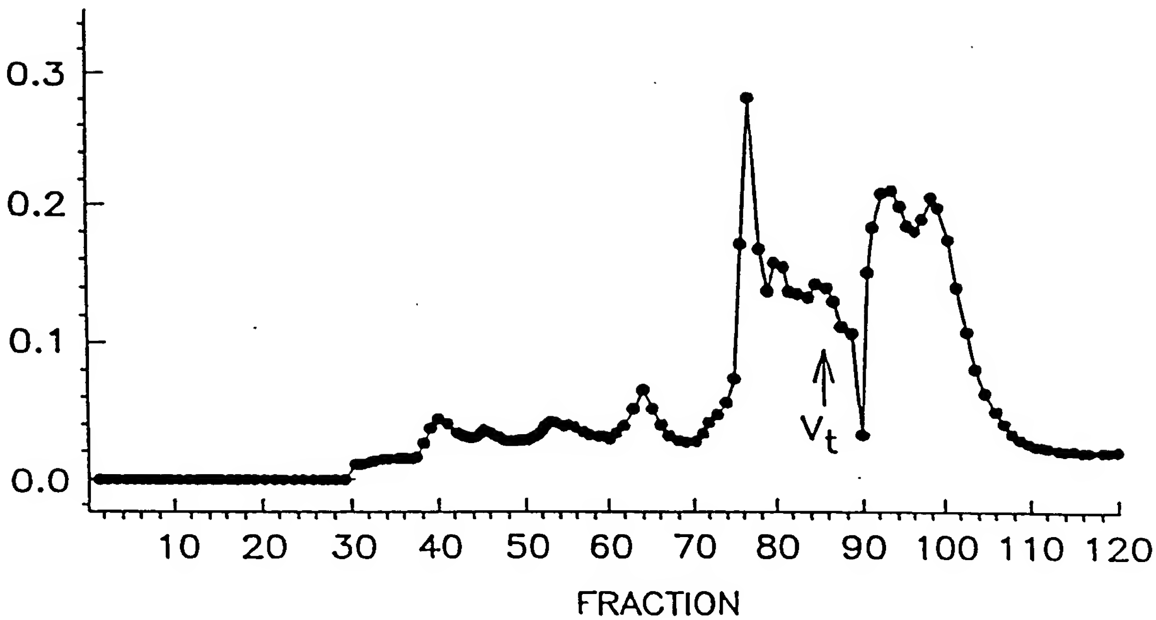
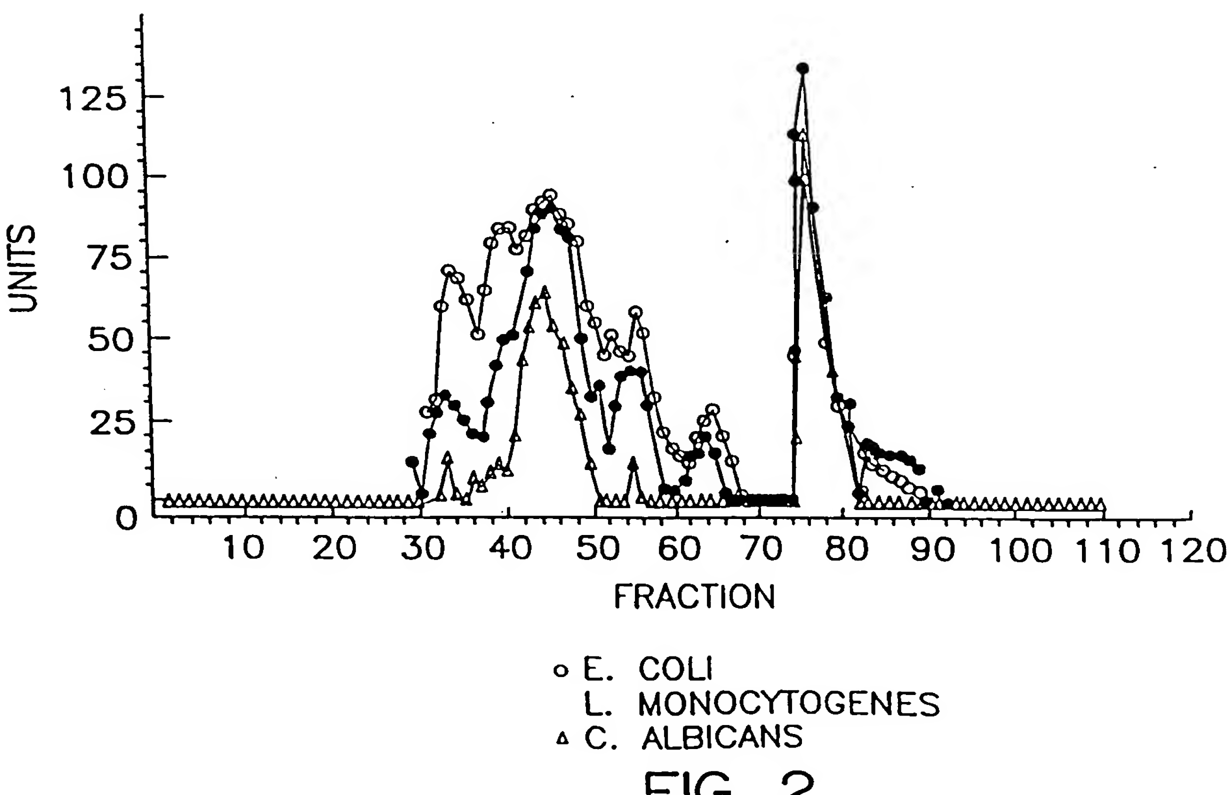


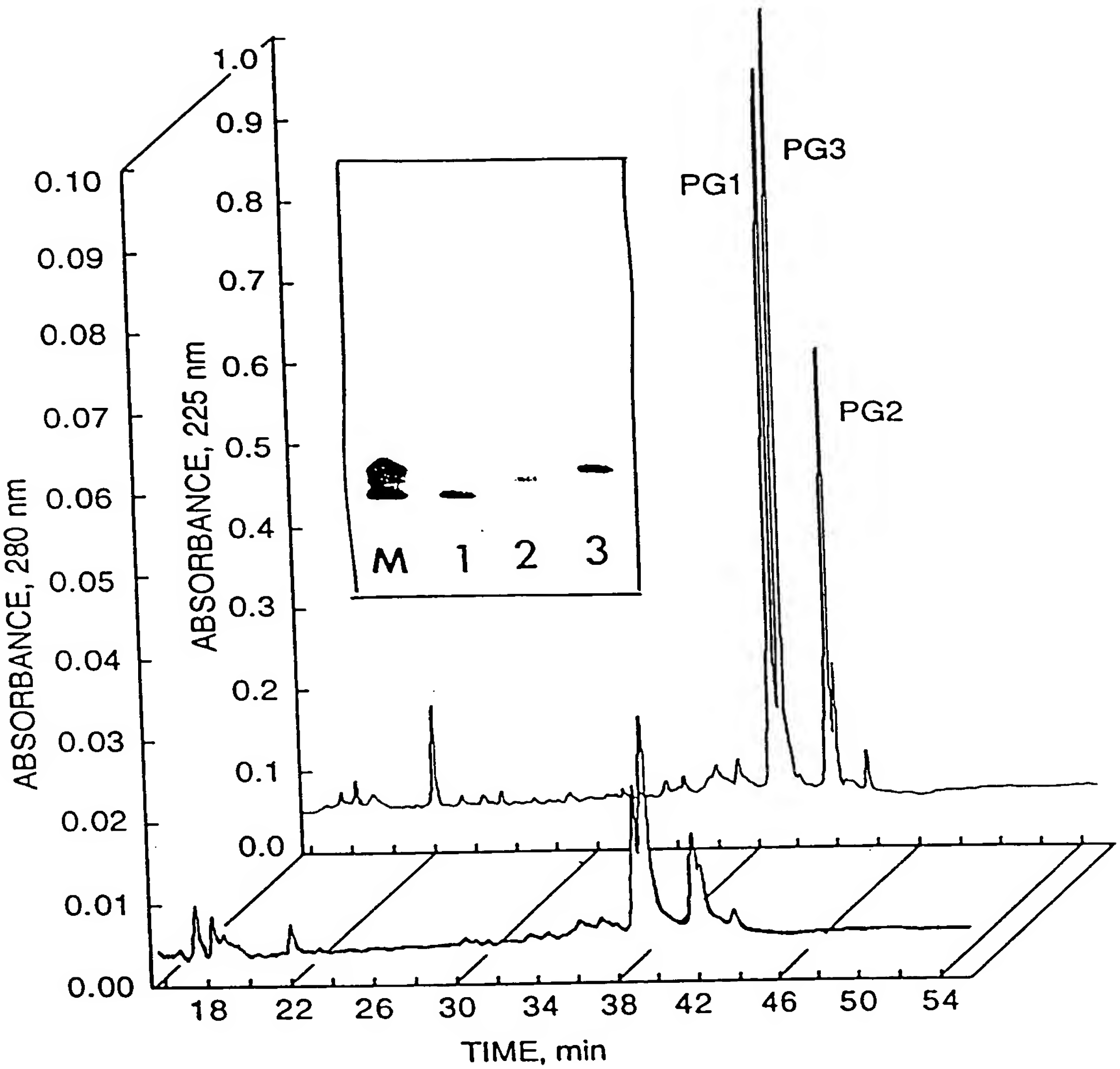
0.3
0.2
0.1
0.0
V_t
10 20 30 40 50 60 70 80 90 100 110 120
FRACTION

FIG. 1



UNITS
125
100
75
50
25
0
10 20 30 40 50 60 70 80 90 100 110 120
FRACTION
○ E. COLI
L. MONOCYTOGENES
△ C. ALBICANS

FIG. 2



1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
ABSORBANCE, 280 nm
ABSORBANCE, 225 nm
PG1
PG3
PG2
M 1 2 3
18 22 26 30 34 38 42 46 50 54
TIME, min

FIG. 3

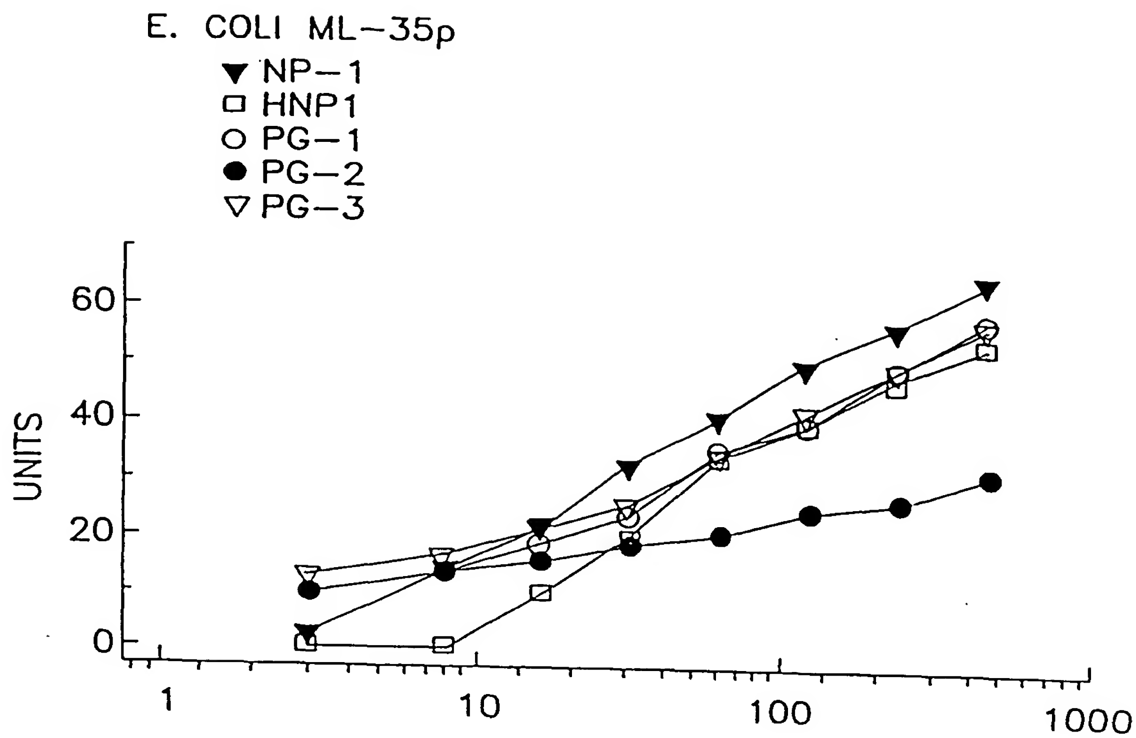

E. COLI ML-35p
NP-1
HNP1
PG-1
PG-2
PG-3
UNITS
60
40
20
0
1
10
100
1000

FIG. 4a

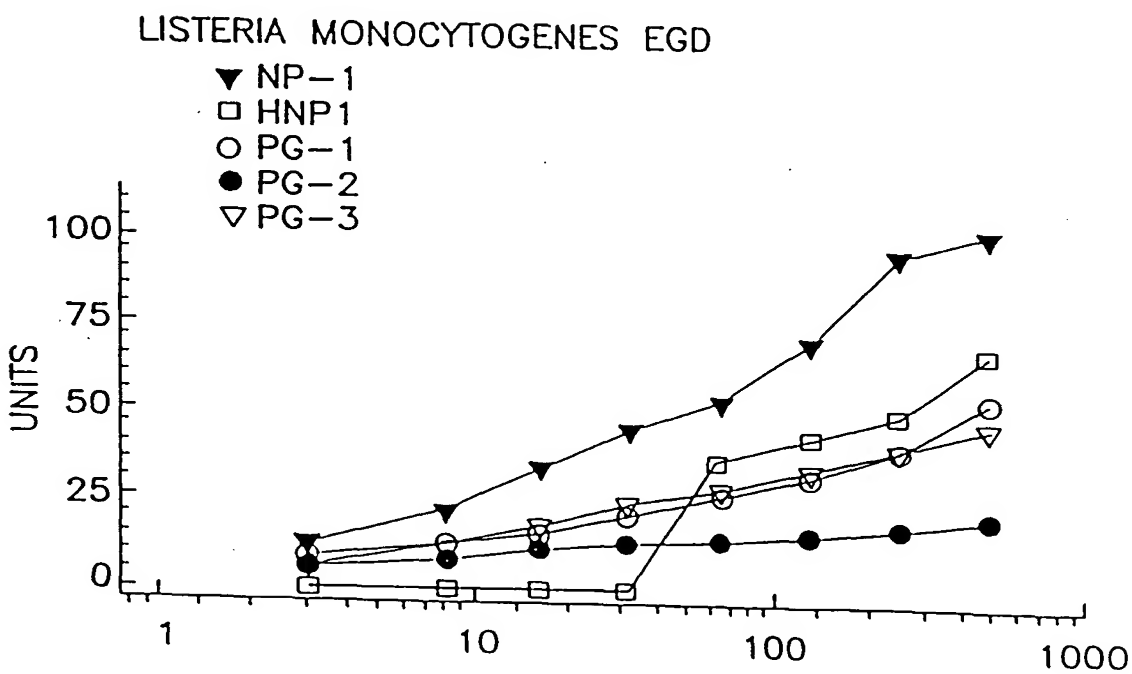

LISTERIA MONOCYTOGENES EGD
NP-1
HNP1
PG-1
PG-2
PG-3
UNITS
100
75
50
25
0
1
10
100
1000

FIG. 4b

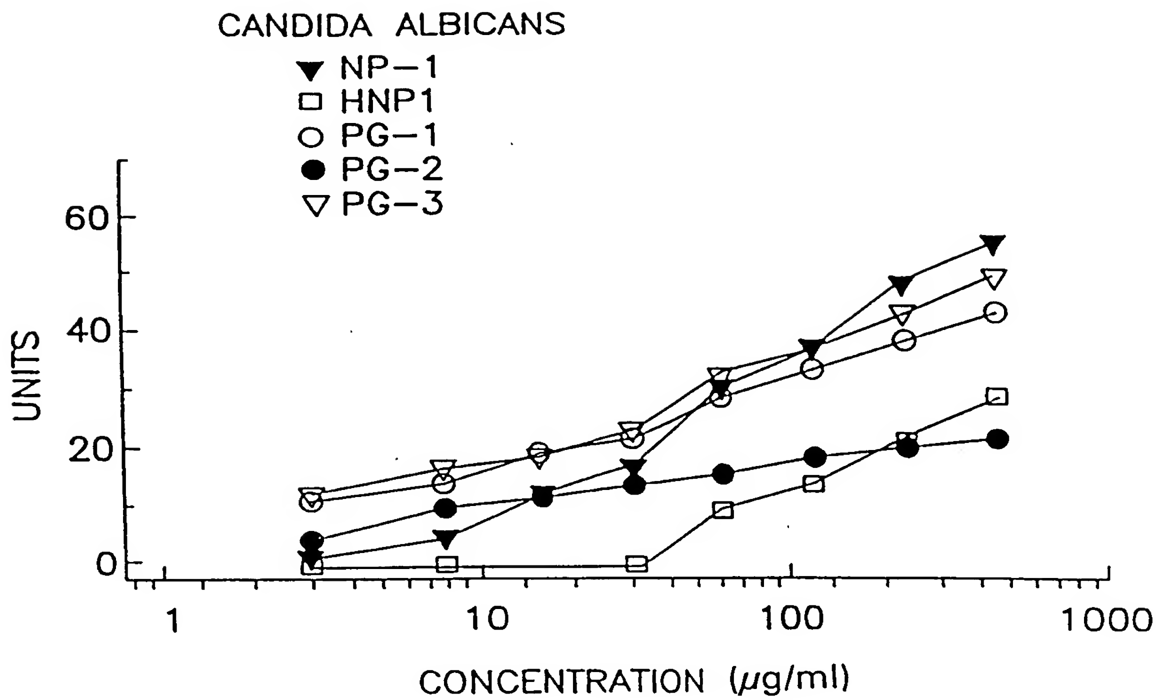

CANDIDA ALBICANS
NP-1
HNP1
PG-1
PG-2
PG-3
60
40
20
0
UNITS
1
10
100
1000
CONCENTRATION (μg/ml)

FIG. 4c

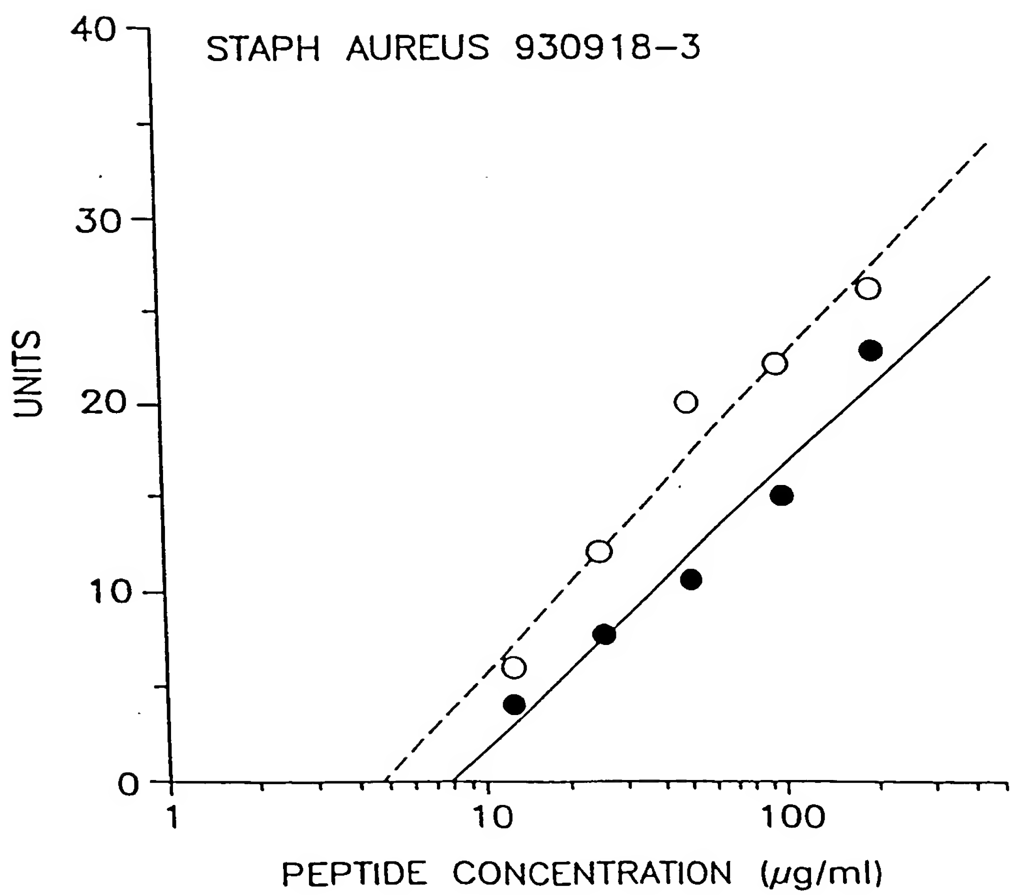
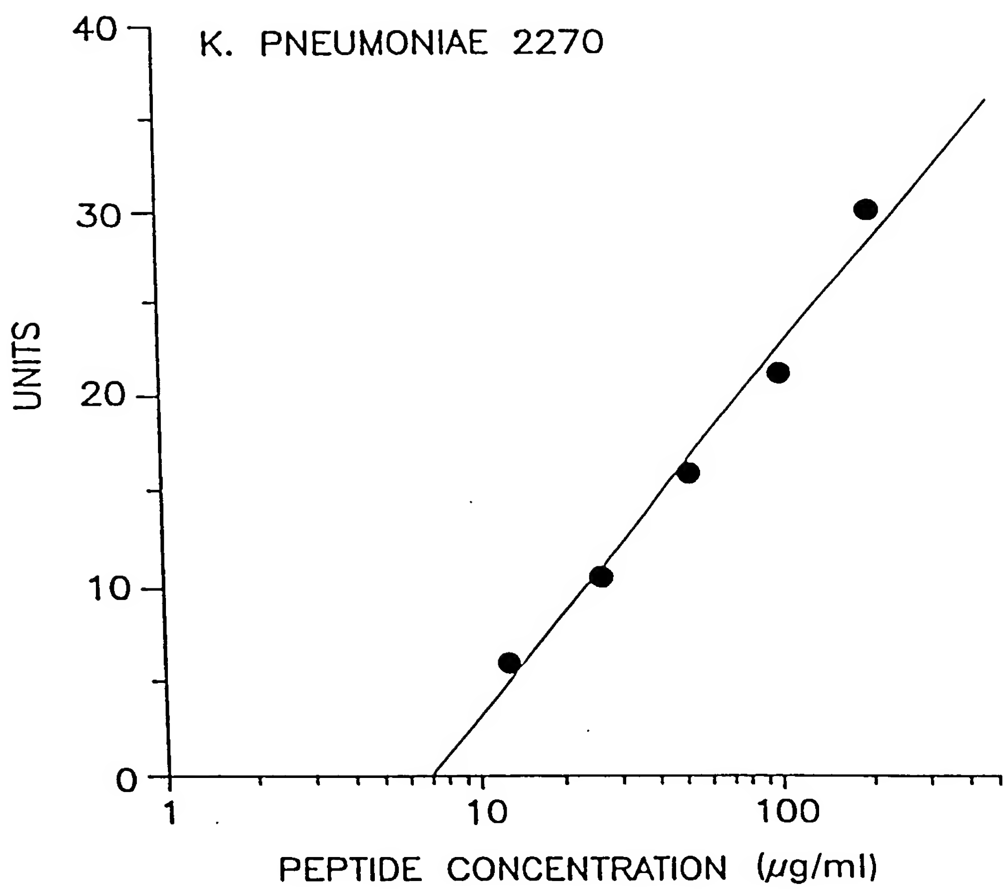

STAPH AUREUS 930918-3
40
30
20
10
0
UNITS
1
10
100
PEPTIDE CONCENTRATION (μg/ml)

FIG. 4d



K. PNEUMONIAE 2270
40
30
20
10
0
UNITS
1
10
100
PEPTIDE CONCENTRATION (μg/ml)

FIG. 4e

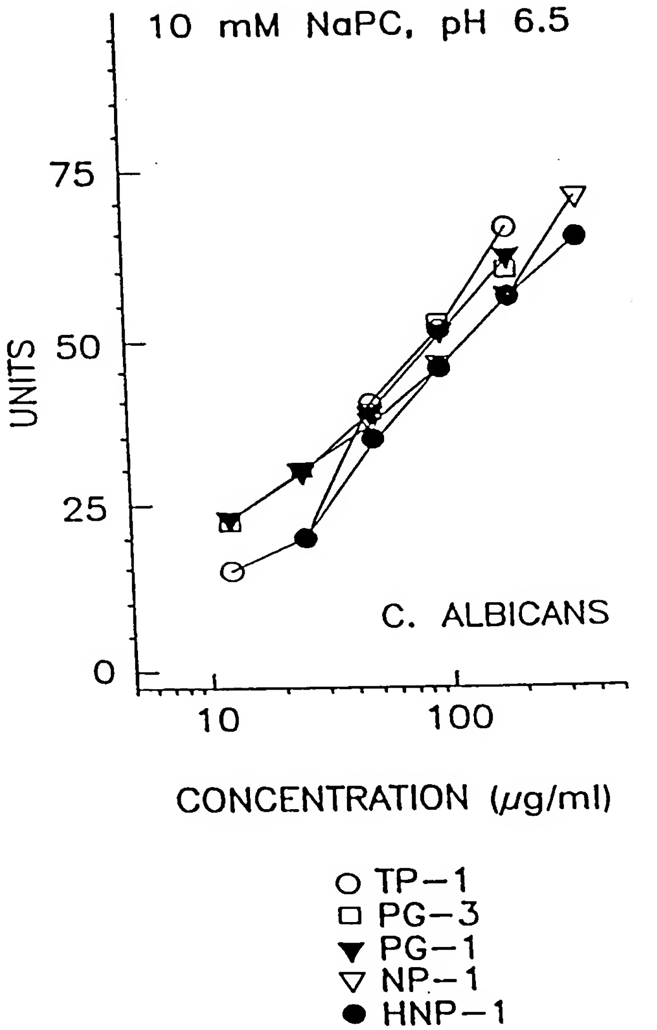


FIG. 5a-1

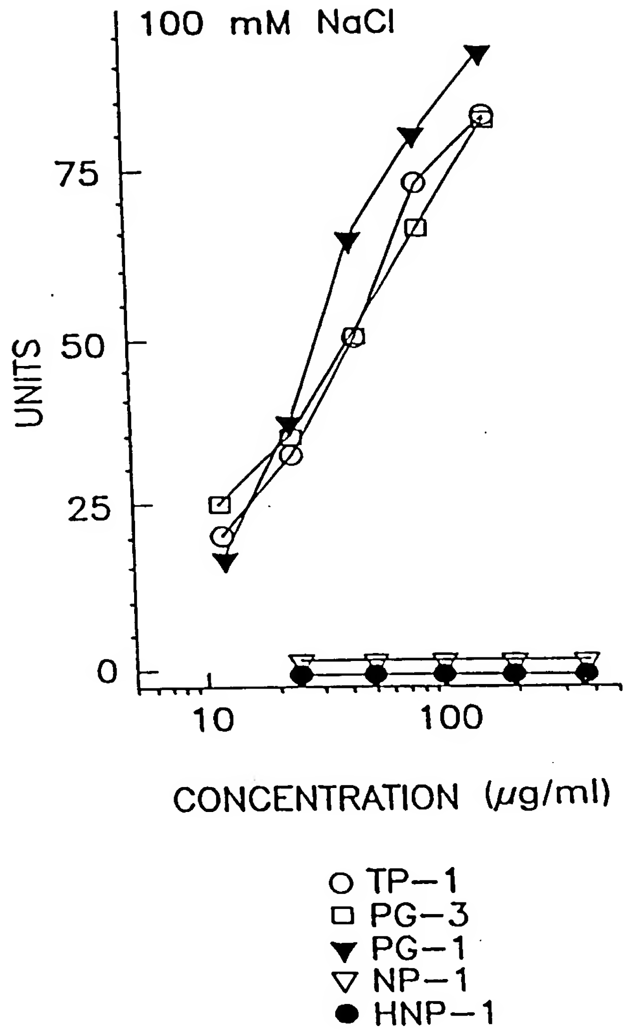


FIG. 5a-2

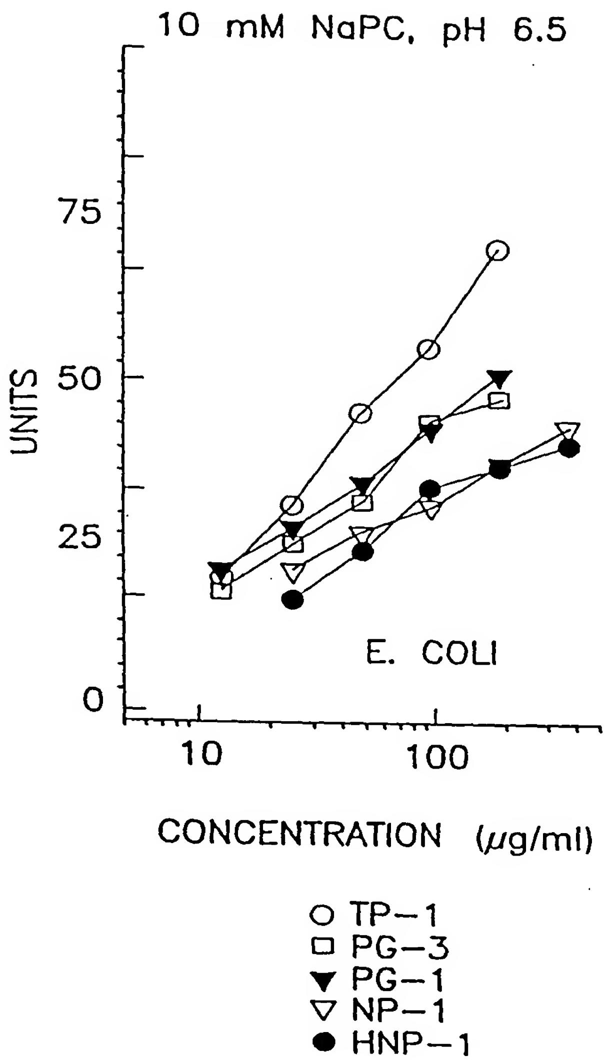


FIG. 5b-1

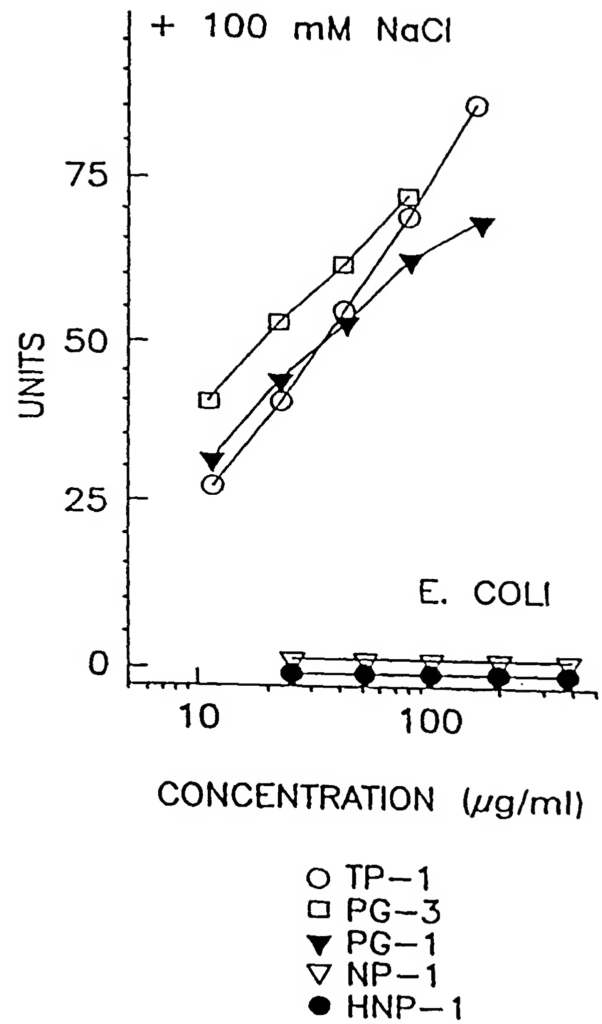


FIG. 5b-2

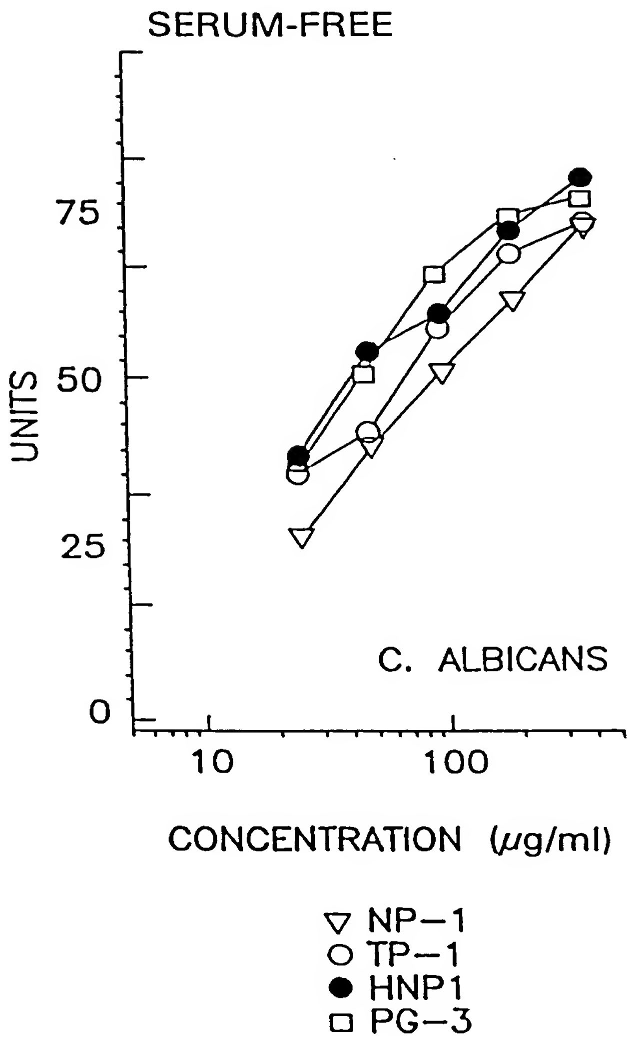


FIG. 5c-I

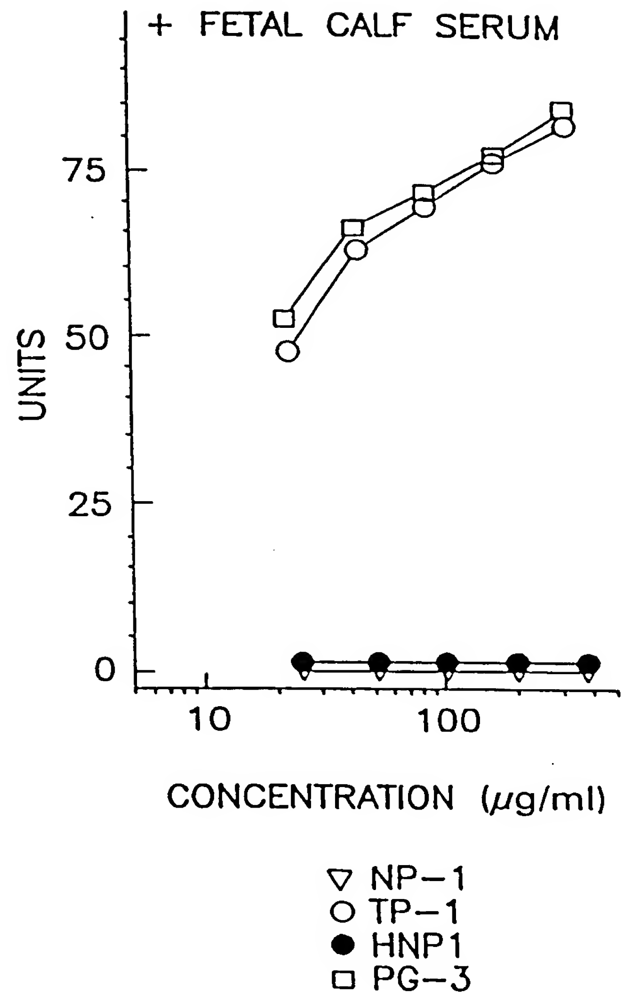


FIG. 5c-2

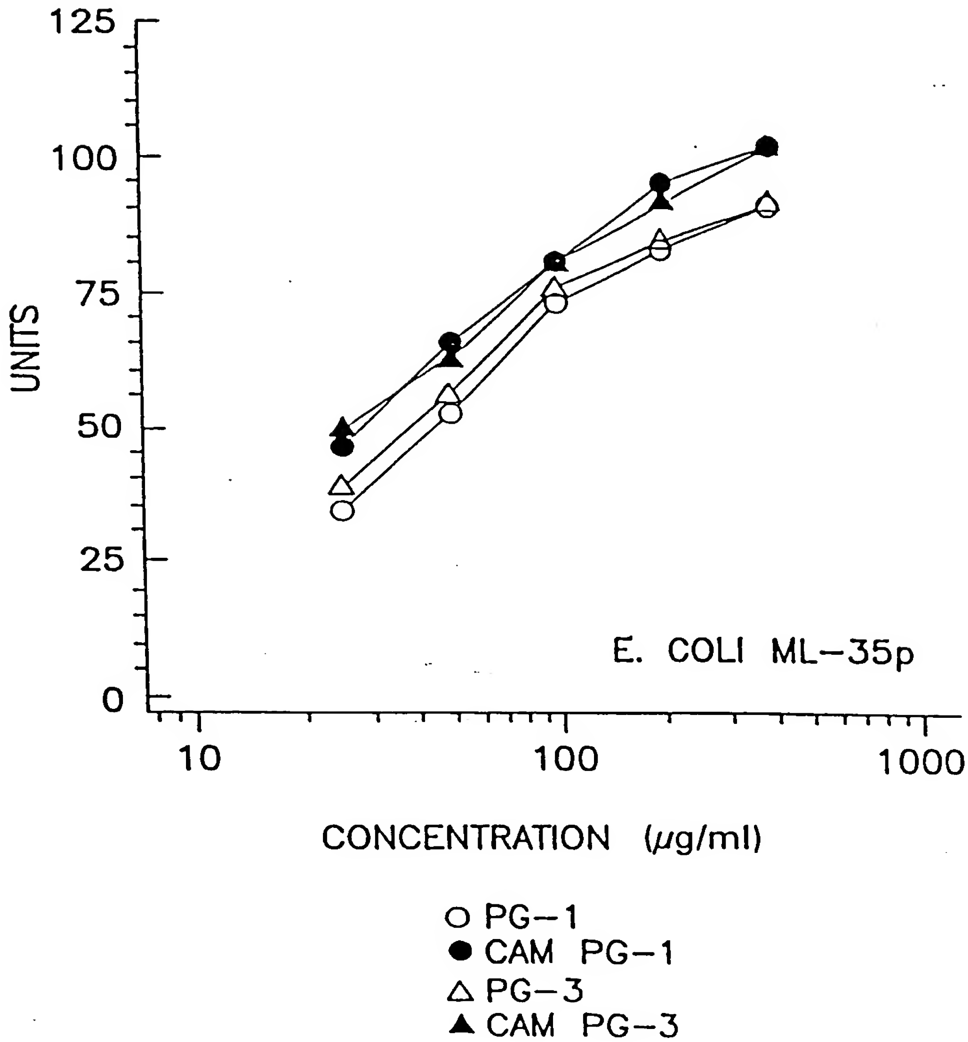
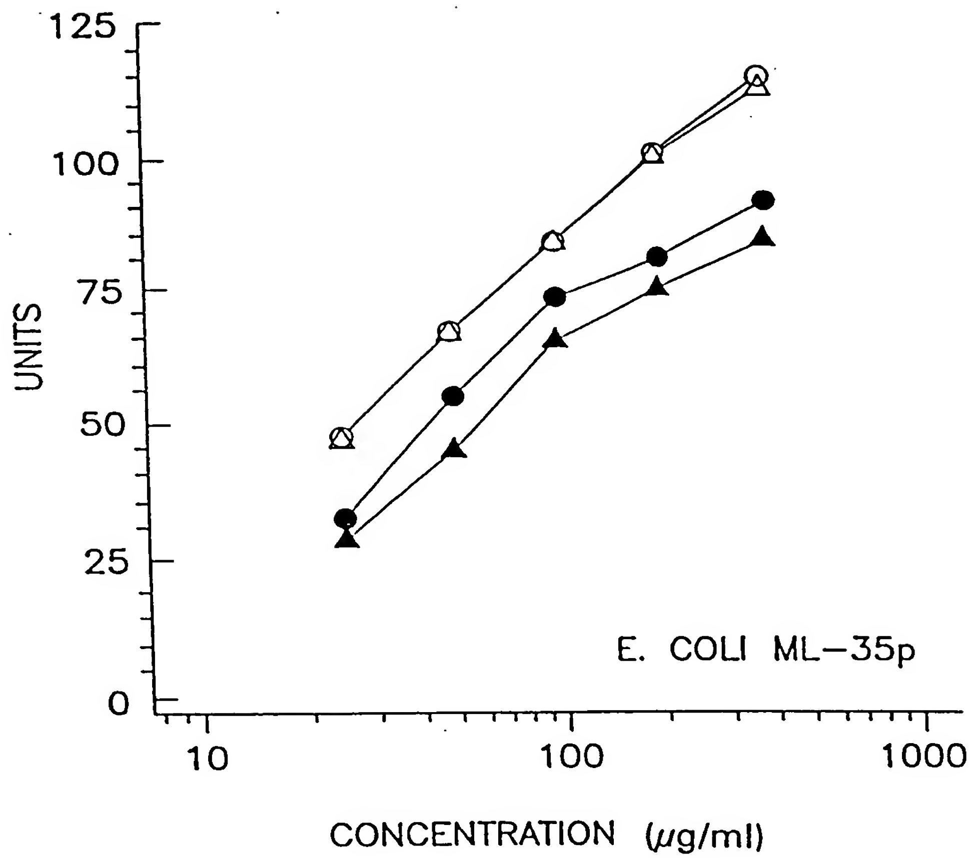
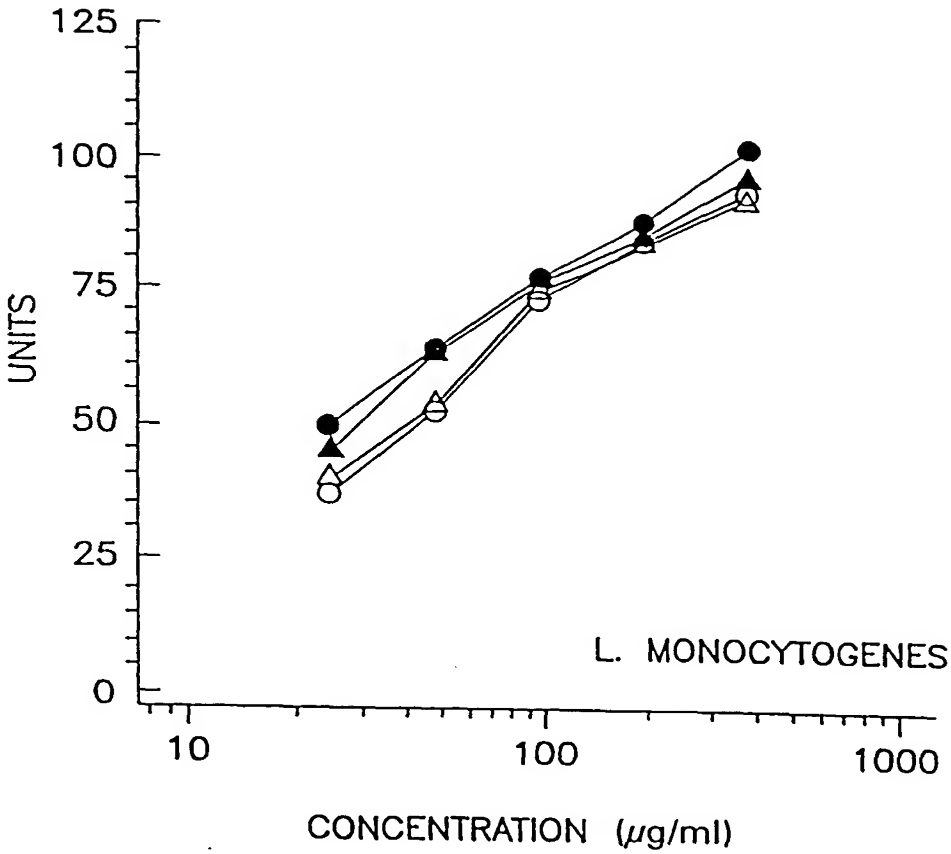

125
100
75
50
25
0
UNITS
E. COLI ML-35p
10
100
1000
CONCENTRATION (μg/ml)
○ PG-1
● CAM PG-1
△ PG-3
▲ CAM PG-3

FIG. 6a



○ PG−1
● CAM PG−1
△ PG−3
▲ CAM PG−3

FIG. 6b



○ PG−1
● CAM PG−1
△ PG−3
▲ CAM PG−3

FIG. 6c

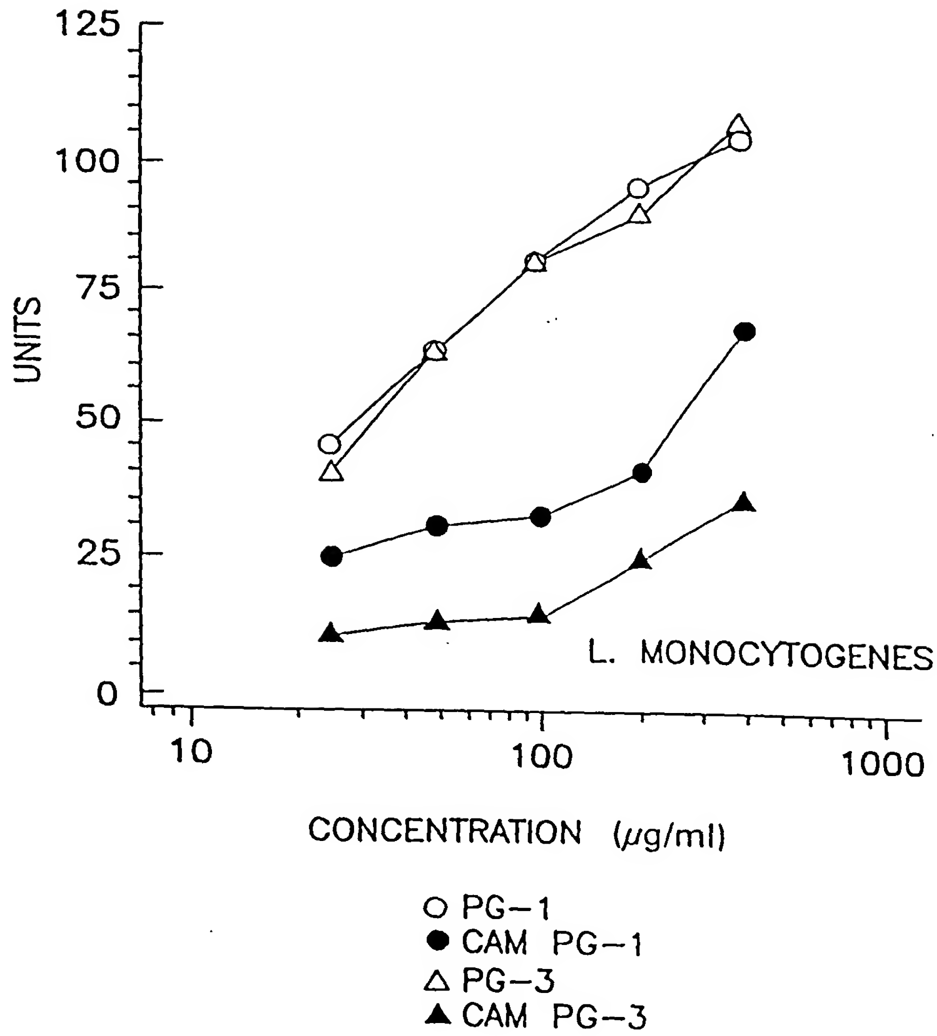
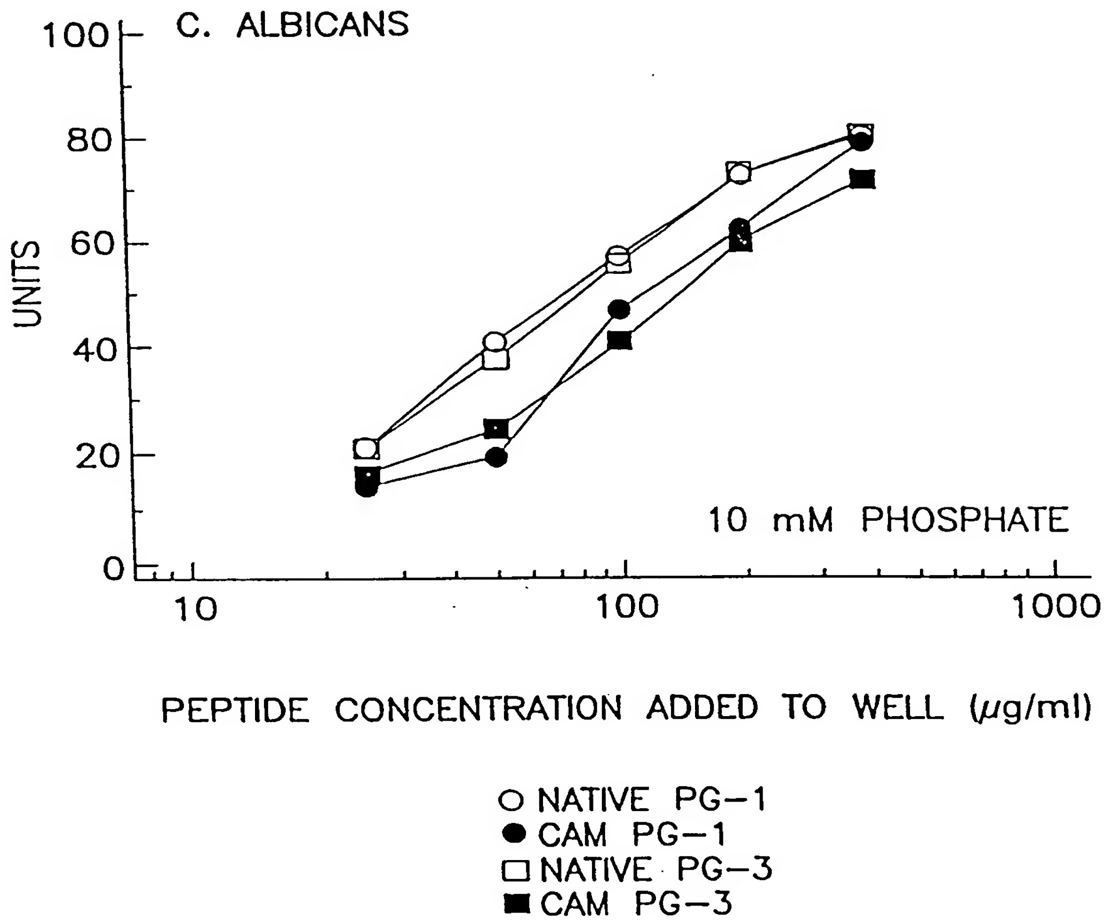

125
100
75
50
25
0
UNITS
10
100
1000
CONCENTRATION (μg/ml)
L. MONOCYTOGENES
PG-1
CAM PG-1
PG-3
CAM PG-3

FIG. 6d



C. ALBICANS
UNITS
100
80
60
40
20
0
10
100
1000
10 mM PHOSPHATE
PEPTIDE CONCENTRATION ADDED TO WELL (μg/ml)
NATIVE PG-1
CAM PG-1
NATIVE PG-3
CAM PG-3

FIG. 6e

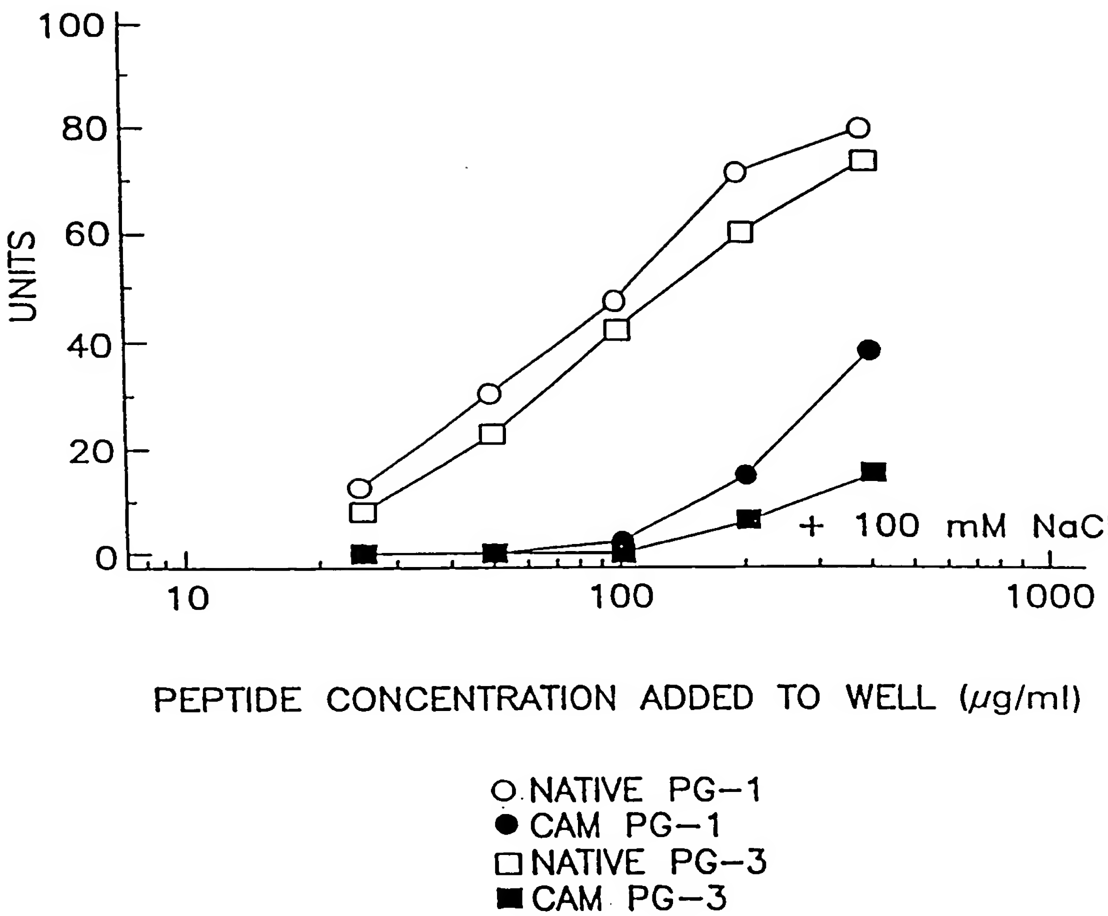

100
80
60
40
20
0
UNITS
+ 100 mM NaCl
10
100
1000
PEPTIDE CONCENTRATION ADDED TO WELL (μg/ml)
NATIVE PG-1
CAM PG-1
NATIVE PG-3
CAM PG-3

FIG. 6f

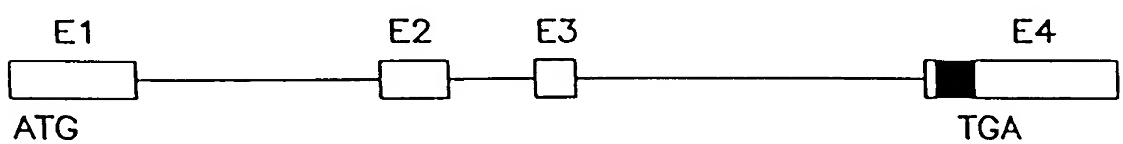

E1
E2
E3
E4
ATG
TGA

FIG. 9

```
         10        20        30        40        50
ATGGAGACCGAGAGAGCCAGCCTGTGCCTGGGGCGCTGGTCACTGTGGCTTCTGCTGCTG    60
MetGluThrGlnArgAlaSerLeuCysLeuGlyArgTrpSerLeuTrpLeuLeuLeuLeu    20

GCACTCGTGGTGCCCTCGGCCAGCGCCCAGGCCCTCAGCTACAGGGAGGCCGTGCTTCGT   120
AlaLeuValValProSerAlaSerAlaGlnAlaLeuSerTyrArgGluAlaVAlLeuArg    40

GCTGTGGATCGCCTCAACGAGCAGTCCTCGGAAGCTAATCTCTACCGCCTCCTGGAGCTG   180
AlaValAspArgLeuAsnGluGlnSerSerGluAlaAsnLeuTyrArgLeuLeuGluLeu    60

GACCAGCCGCCCAAGGCCGACGAGGACCCGGGCACCCCGAAACCTGTGAGCTTCACGGTG   240
AspGlnProProLysAlaAspGluAspProGlyThrProLysProValSerPheThrVal    80

AAGGAGACTGTGTGTCCCAGGCCGACCCGGCAGCCCCCGGAGCTGTGTGACTTCAAGGAG   300
LysGluThrValCysProArgProThrArgGlnProProGluLeuCysAspPheLysGlu   100

AACGGGCGGGTGAAACAGTGTGTGGGGACAGTCACCCTGGATCAGATCAAGGACCCGCTC   360
AsnGlyArgValLysGlnCysValGlyThrValThrLeuAspGlnIleLysAspProLeu   120
                                          G3             G4
GACATCACCTGCAATGAGGTTCAAGGTGTCAGGGGAGGTCGCCTGTGCTATTGTAGGCGT   420
AspIleThrCysAsnGluValGlnGlyValArgGlyGlyArgLeuCysTyrCysArgArg   140

                                          Gly3           Gly4

         A2
T4 A4    T4        T2
AGGTTCTGCGTCTGTGTCGGACGAGGATGACGGTTGCGACGGCAGGCTTTCCCTCCCCCA   480
ArgPheCysValCysValGlyArgGly---                                 149

Trp4Ile4 Phe4      ---2
         Ile2

ATTTTCCCGGGGCCAGGTTTCCGTCCCCCAATTTTTCCGCCTCCACCTTTCCGGCCCGCA   540
                                       A2 G2
CCATTCGGTCCACCAAGGTTCCCTGGTAGACGGTGAAGGATTTGCAGGCAACTCACCCAG   600
         C4
AAGGCCTTTCGGTACATTAAAATCCCAGCAAGGAGACCTAAGCATCTGCTTTGCCCAGGC   660

CCGCATCTGTCAAATAAATTCTTGTGAAACC                                691
```

FIG. 7

ATGGAGACCCAGAGAGCCAGCCTGTGCCTGGGGCGCTGGTCACTGTGGCTTCTGCTGCTG 60
M E T Q R A S L C L G R W S L W L L L L
G5
GCACTCGTGGTGCCCTCGGCCAGCGCCCAGGCCCTCAGCTACAGGGAGGCCGTGCTTCGT 120
A L V V P S A S A Q A L S Y R E A V L R
G5
GCTGTGGATCGCCTCAACGAGCAGTCCTCGGAAGCTAATCTCTACCGCCTCCTGGAGCTG 180
A V D R L N E Q S S E A N L Y R L L E L
GACCAGCCGCCCAAGGCCgtgagtcgggcaggggctcaggaggggctgggggcgggggc 240
D Q P P K A
tgtcccccacccgccccggggctccctgtccctcccccctgctcaggctgtccctcctgcc 300
aggaaggcacttgtccctctaagggggacccccctctgccaggaaaccttcccagagctgg 360
gtgccctgcccgcgtgagagcttcccgccttagcctctgggctgtgggctcagggccctg 420
cacagcctgtgaggcaggagcgggctctgtcccctcccctgtgcacccagcaccaagccc...480
agggccaggctcccagcaggggctgcagaggctgctgtctaggtgggggcggggaggggg 540
tgacagatccgagggggaagcctgagcccgagtcccatctccccactttgatccttgacc 600
A5
agGACGAGGACCCGGGCACCCCGAAACCTGTGAGCTTCACGGTGAAGGAGACTGTGTGTC 660
D E D P G T P K P V S F T V K E T V C
CCAGGCCGACCCGGCAGCCCCCGGAGCTGTGTGACTTCAAGGAGAACGGGgtgaggctgg 720
P R P T R Q P P E L C D F K E N G
gggctgggggcgctggcggatgcttcccaaggagctgaacaggagagcctgctggggaag 780
atgtccaggccctggggtgaggctgggagctcatggatggaggagggggggtcccagttt 840
t3
gaccttgagtctccccttccagCGGGTGAAACAGTGTGTGGGGACAGTCACCCTGGATCA 900
R V K Q C V G T V T L D Q
GATCAAGGACCCGCTCGACATCACCTGCAATGAGgtgagtggccccttattggtgtcaag 960
I K D P L D I T C N E
ttgctaatgggttggtgtggggaactccttgggagtgttacccgctgccccatccagggc 1020
gtggaaaggccctcctaccccggcccttccctcacctcggccccagggctccaggtctgg 1080
ctctgtcatccttagggccgcggttccctcaatggggtcccccccctcgtatttgtcagaa 1140
g3,5
aggcacatttcaggccccaccccgaccctctgaatcacactcttgggtggagcccagcct 1200
tgtctcttctcccaagatcccagcgggttcttcctgtgctgtcggctgagaggcagtgac 1260
cggactaatggacttgcaggccctgctcctggccagctttgcggggctgggtttgggacc 1320
ctggcaaggccccagccatctctgggcctgagtccacttatgtgtctgtgggggattcaa 1381
g3,5
t5
ccacgtgctccaaaggtcacagccagaggtggaccagggccccaagcctcttactgtttc 1440

FIG. 8a

```
cccattcagggatttttctagtctggagggagggttcttgtcttgacccttggccagacc    1500
                                                       G3
ccacccgaaacctgtttctcttggtcacagGTTCAAGGTGTCAGGGGAGGTCGCCTGTGC    1560
                               F  Q  G  V  R  G  G  R  L  C
                                           ------- G3 -------
  C5                T5
TATTGTAGGCGTAGGTTCTGCGTCTGTGTCGGACGAGGATGACGGTTGCGACGGCAGGCT    1620
 Y  C  R  R  R  F  C  V  C  V  G  R  G ***
---------- P5 ----------------------------
TTCCCTCCCCCAATTTTCCCGGGGCCAGGTTTCCGTCCCCCAATTTTTCCGCCTCCACCT    1680
TTCCGGCCCGCACCATTCGGTCCACCAAGGTTCCCTGGTAGACGGTGAAGGATTTGCAGG    1740
                          C3,5
CAACTCACCCAGAAGGCCTTTCGGTACATTAAAATCCCAGCAAGGAGACCTAAGCATCTG    1800
CTTTGCCCAGGCCCGCATCTGTCAAATAAATTCTTGTGAAACC                     1843
```

FIG. 8b

	1 2 3	4	5 6 7 8 9	10 11 12	13	14	15 16	17 18
PG-1	RGG	R	LCYCR	RRF	C	V	CV	GR*
PG-2	RGG	R	LCYCR	RRF	C	I	CV	
PG-3	RGG	G	LCYCR	RRF	C	V	CV	GR*
PG-4	RGG	R	LCYCR	GWI	C	F	CV	GR*
PG-5	RGG	R	LCYCR	PRF	C	V	CV	GR*

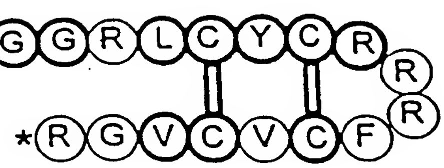
PG-1 

FIG. 10

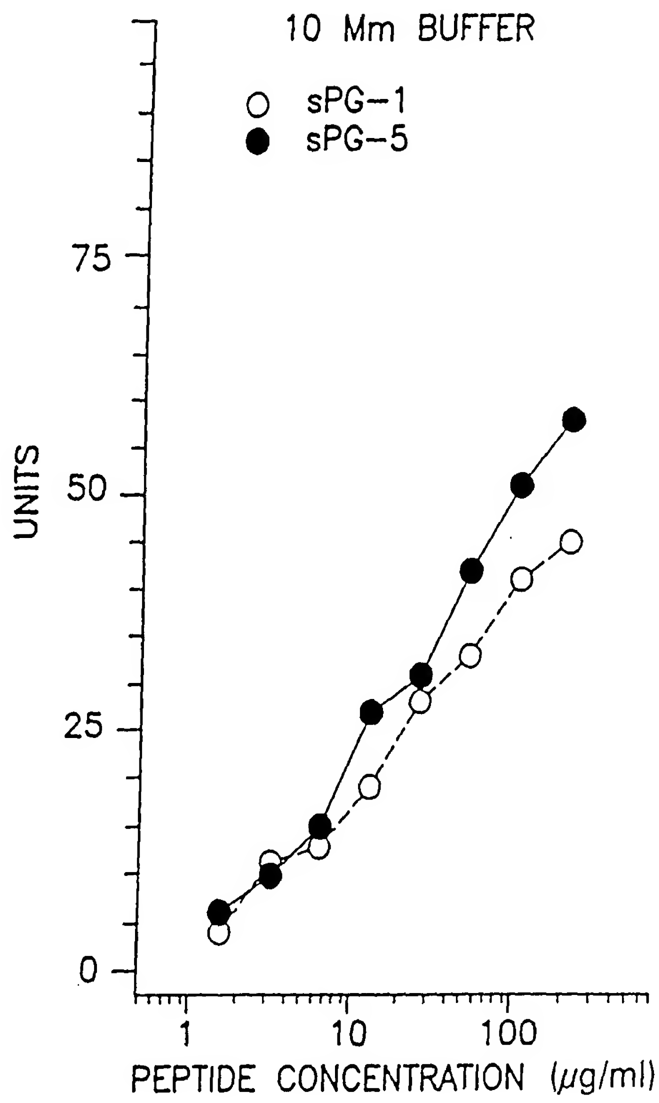


FIG. 11a-1

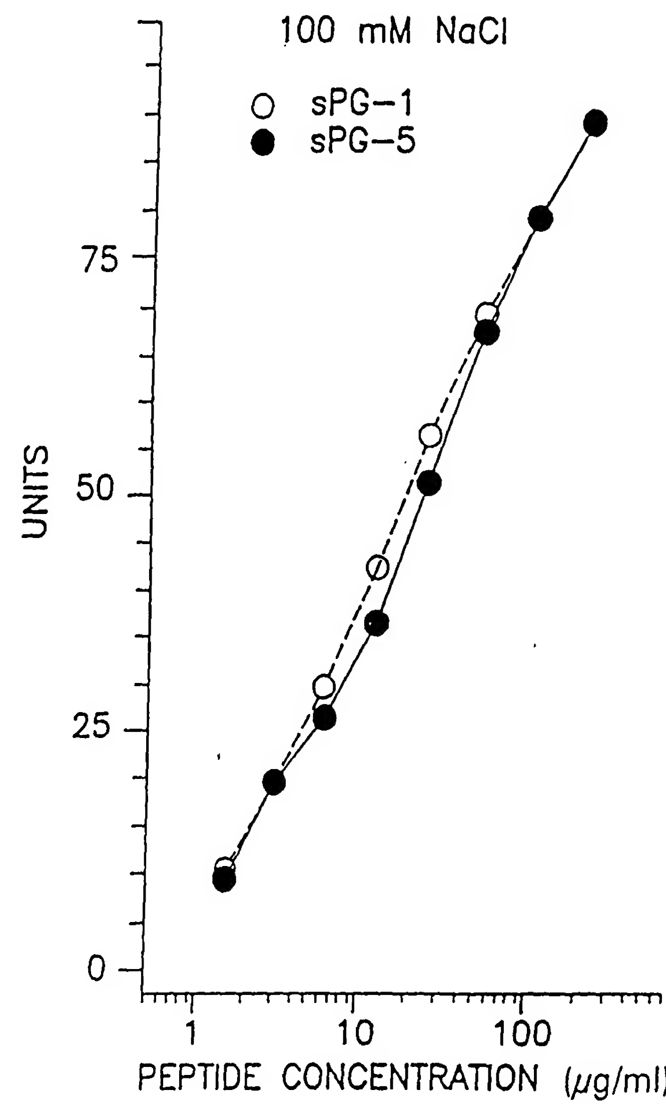


FIG. 11a-2

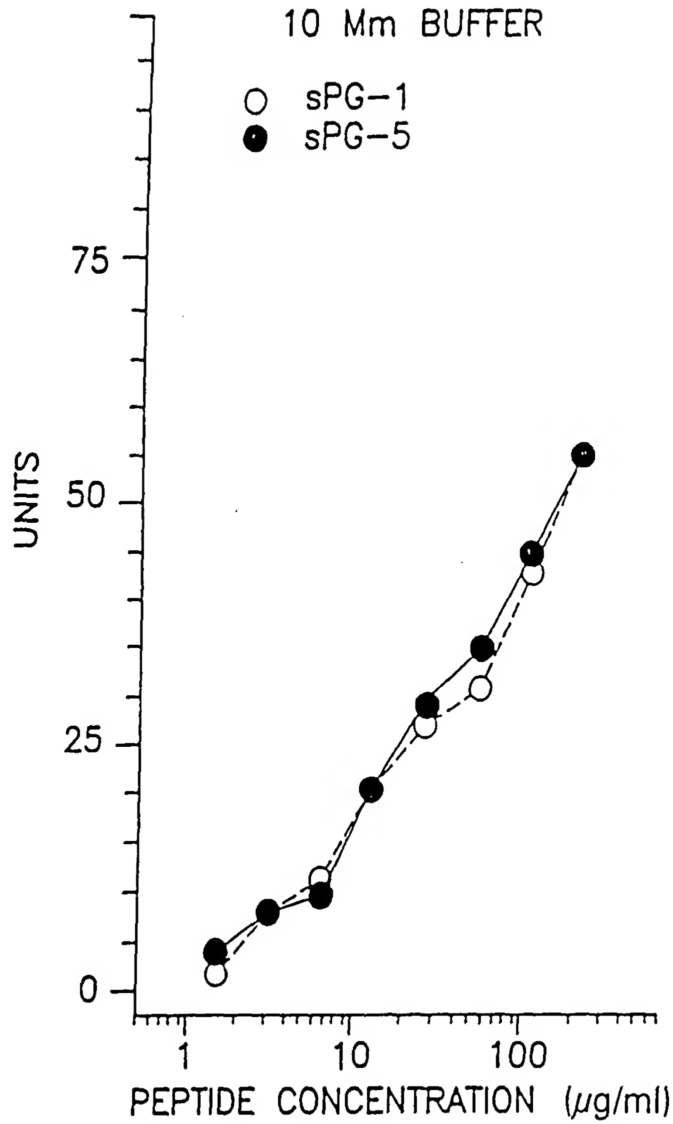


FIG. 11b-1

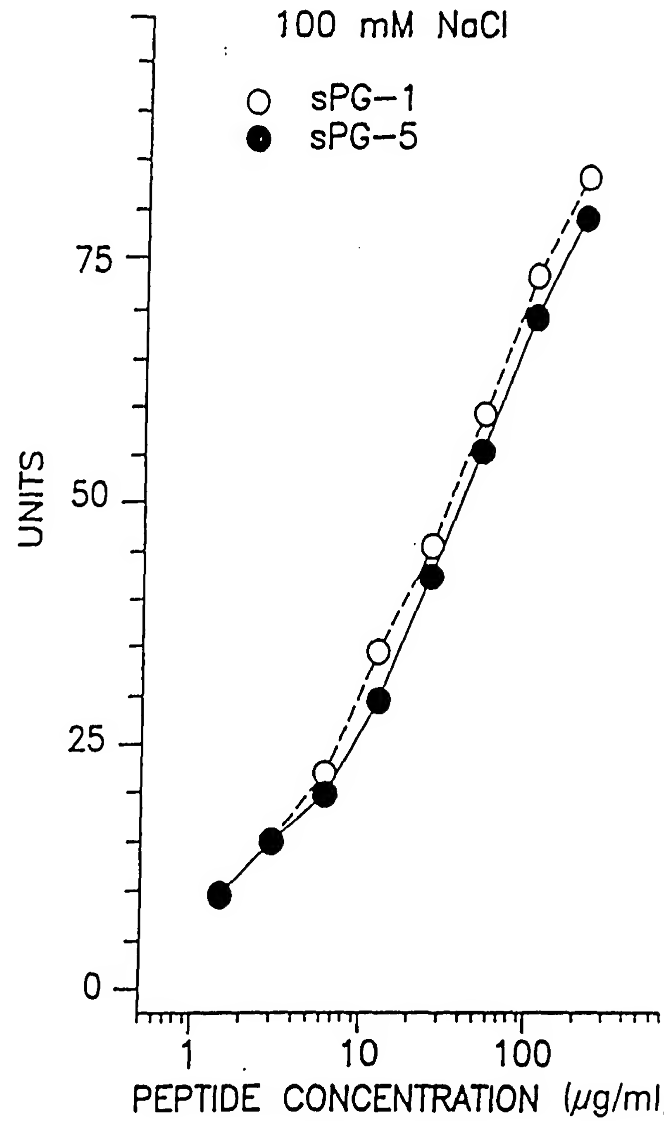


FIG. 11b-2

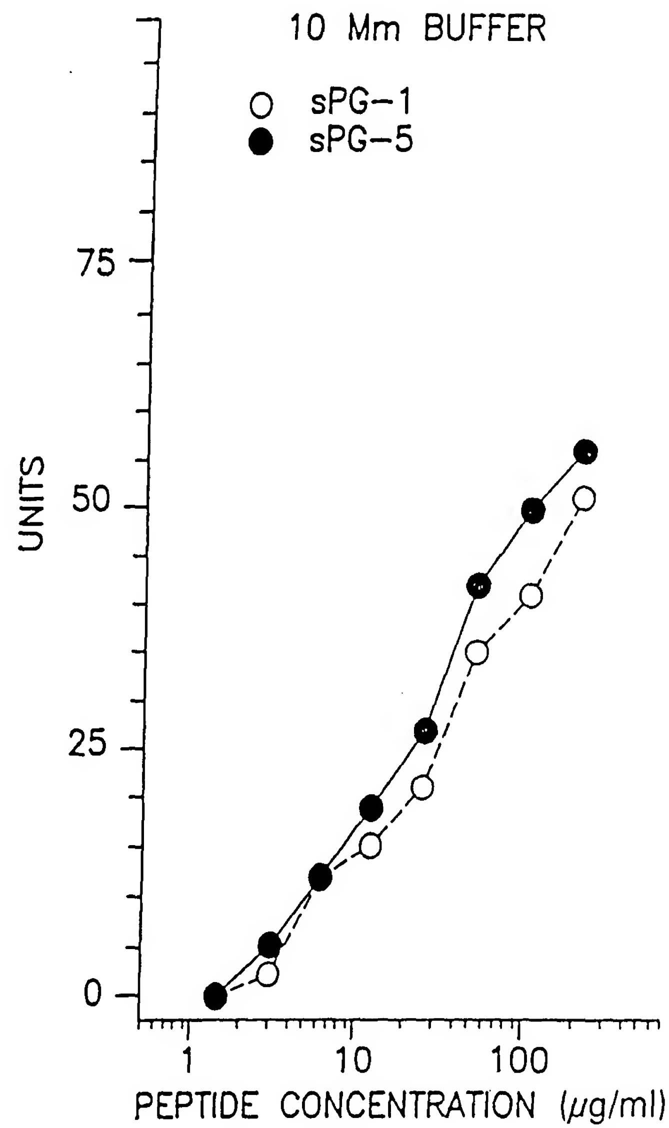


FIG. 11c-1

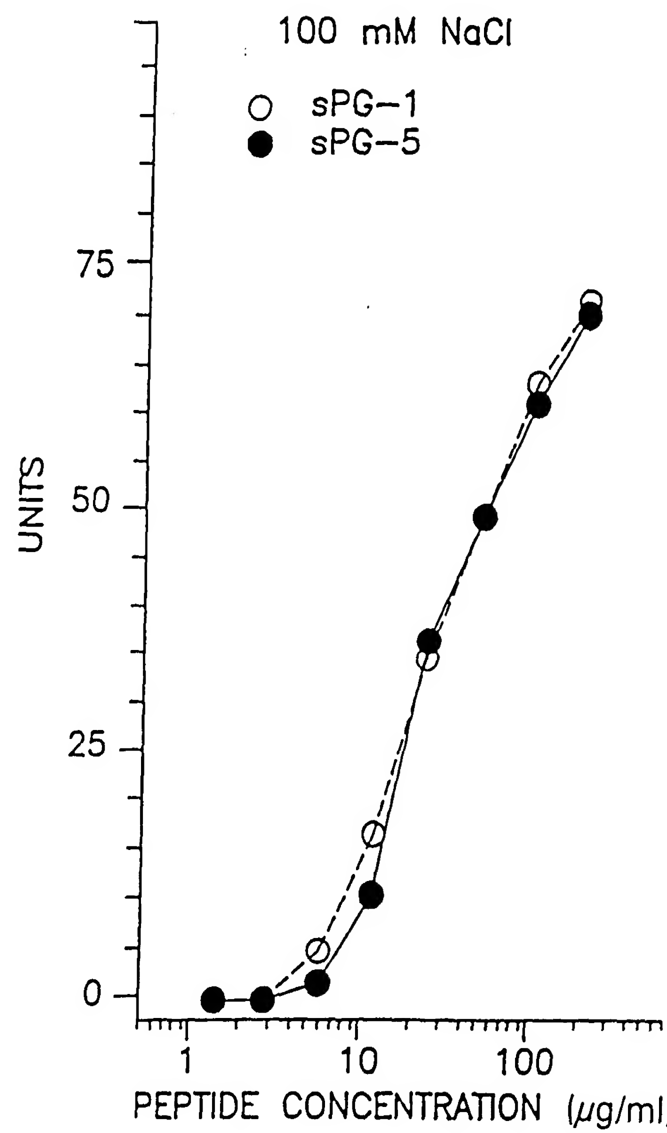


FIG. 11c-2

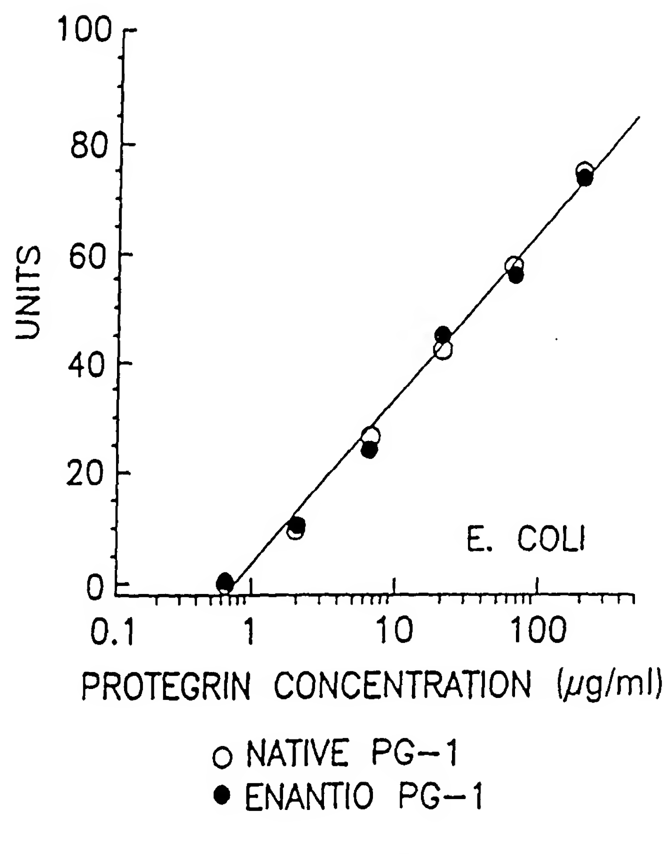


FIG. 12a

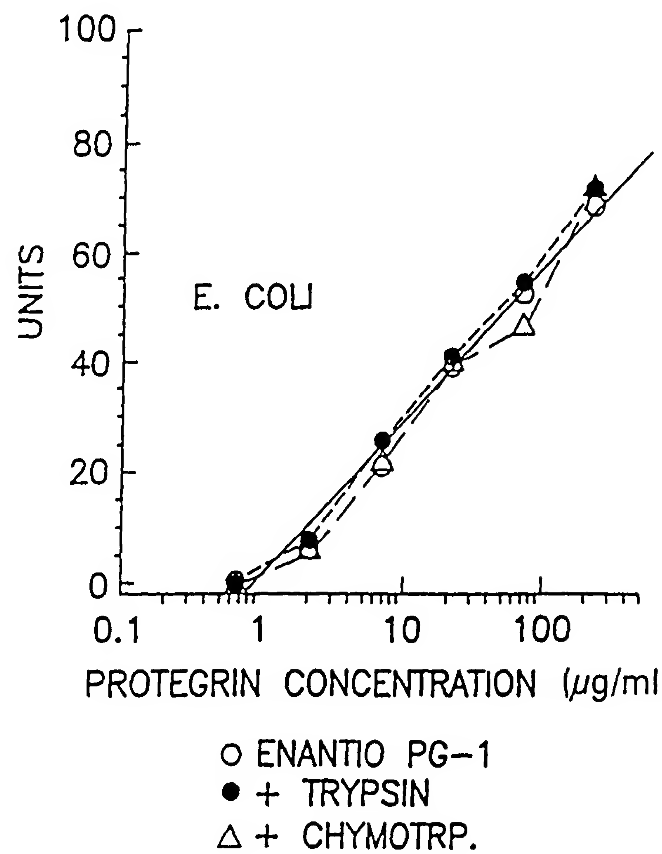


FIG. 12b

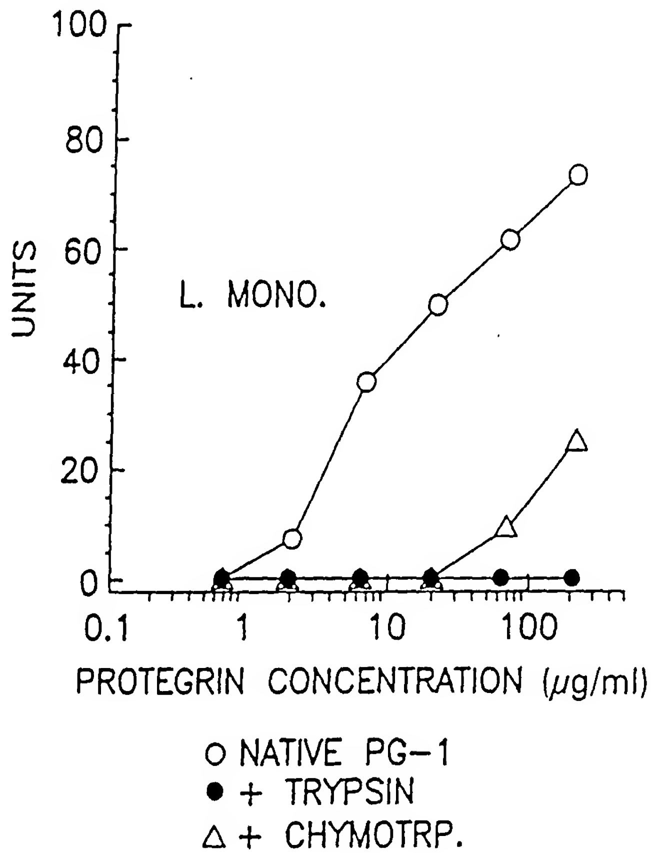


FIG. 12c

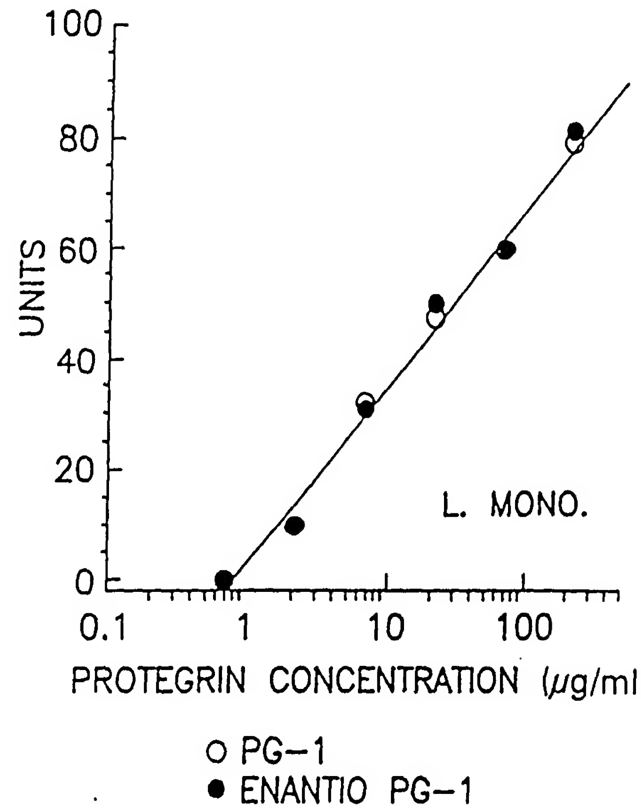


FIG. 12d

OPEN SYMBOLS = KITE, CLOSED SYMBOLS = BULLET

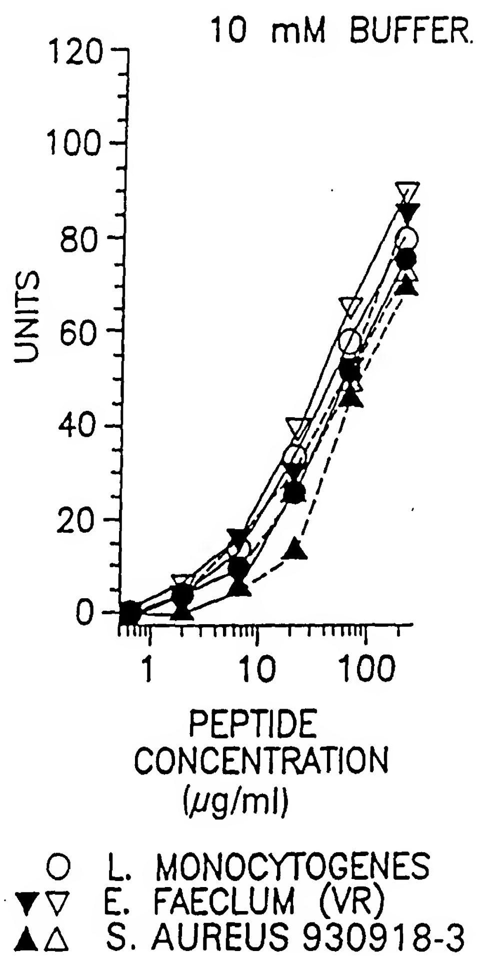


FIG. 13a

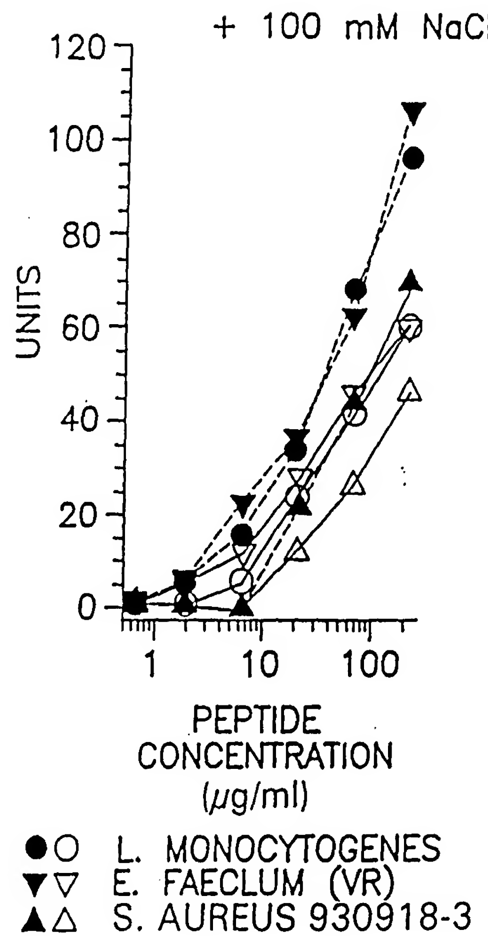


FIG. 13b

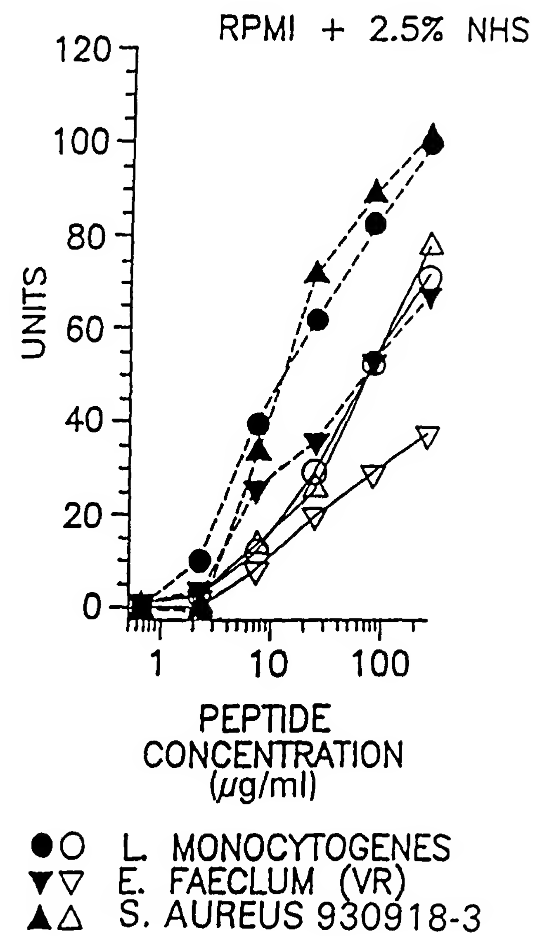
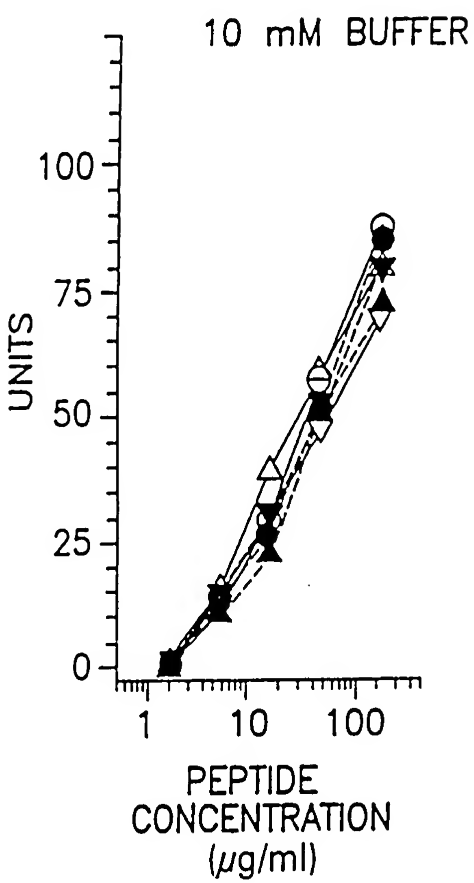


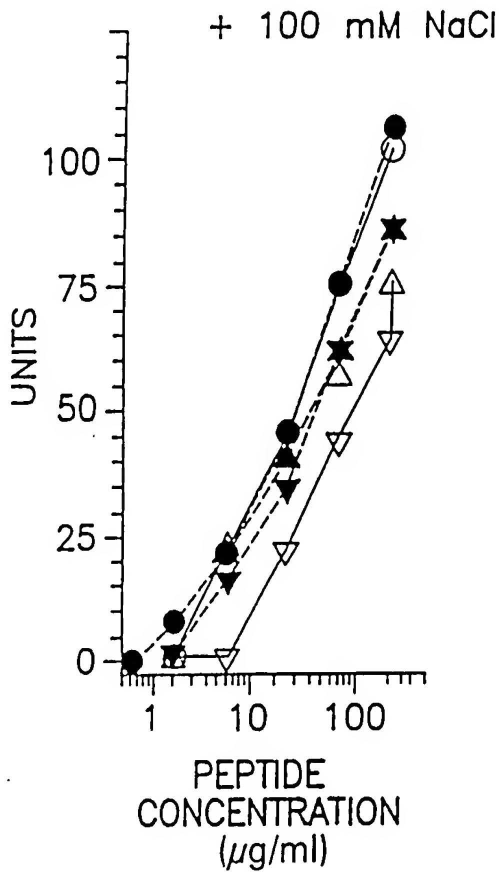
FIG. 13c

OPEN SYMBOLS = KITE, CLOSED SYMBOLS = BULLET



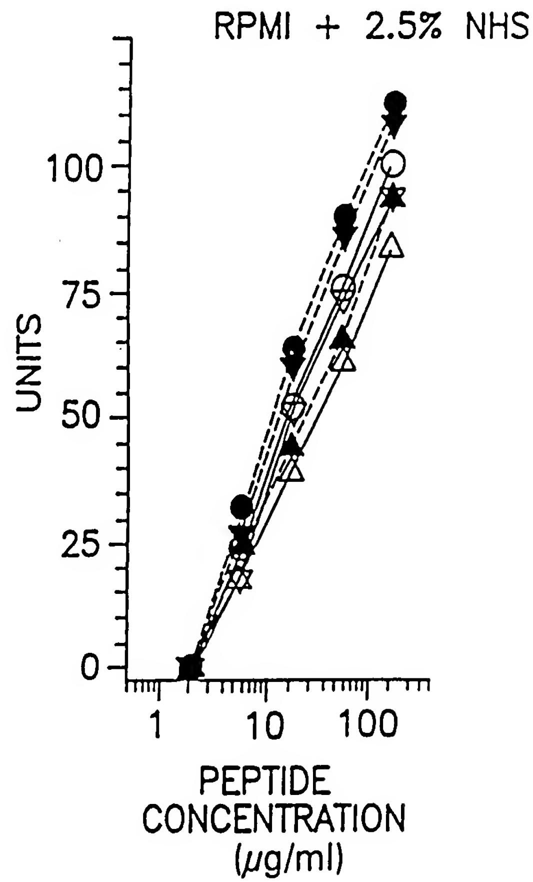
○ E. COLI
▼▽ K. PNEUMONIAE
▲△ P. AERUGINOSA

FIG. 14a



●○ E. COLI
▼▽ K. PNEUMONIAE
▲△ P. AERUGINOSA

FIG. 14b



●○ E. COLI
▼▽ K. PNEUMONIAE
▲△ P. AERUGINOSA

FIG. 14c

OPEN SYMBOLS = LINEARIZED, CLOSED SYMBOLS = NATIVE

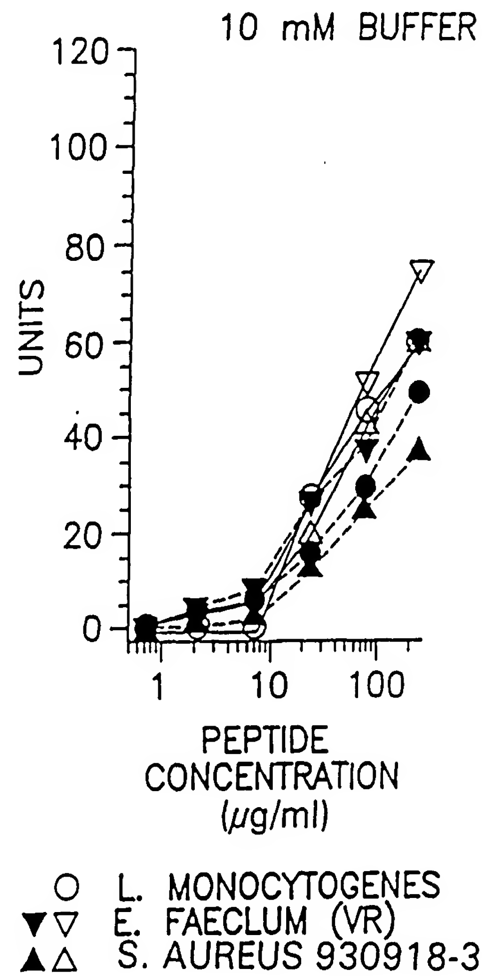


FIG. 15a

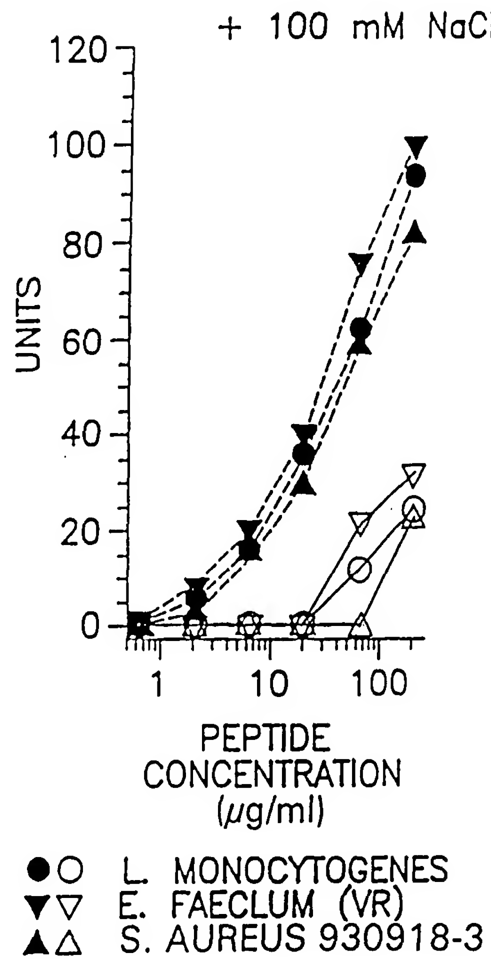


FIG. 15b

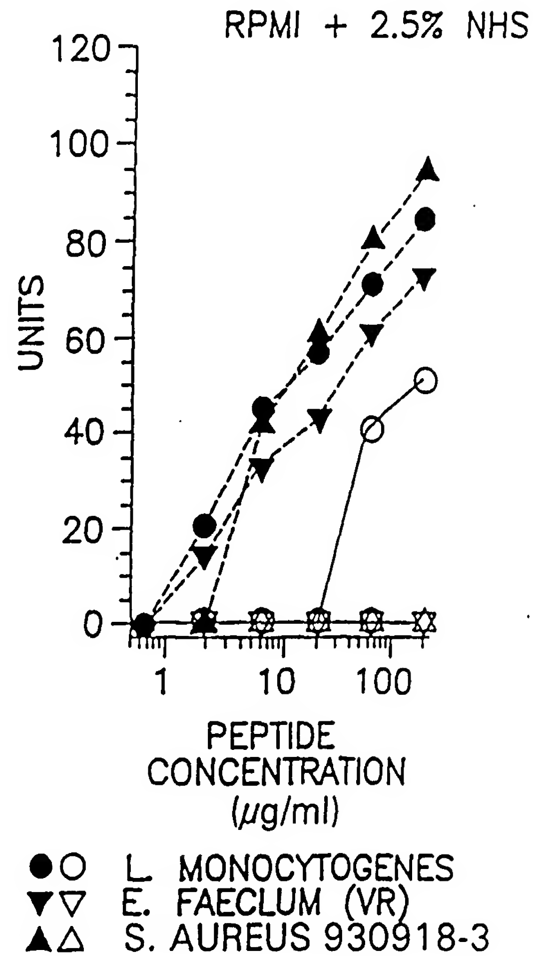


FIG. 15c

OPEN SYMBOLS = LINEARIZED, CLOSED SYMBOLS = sPG-1

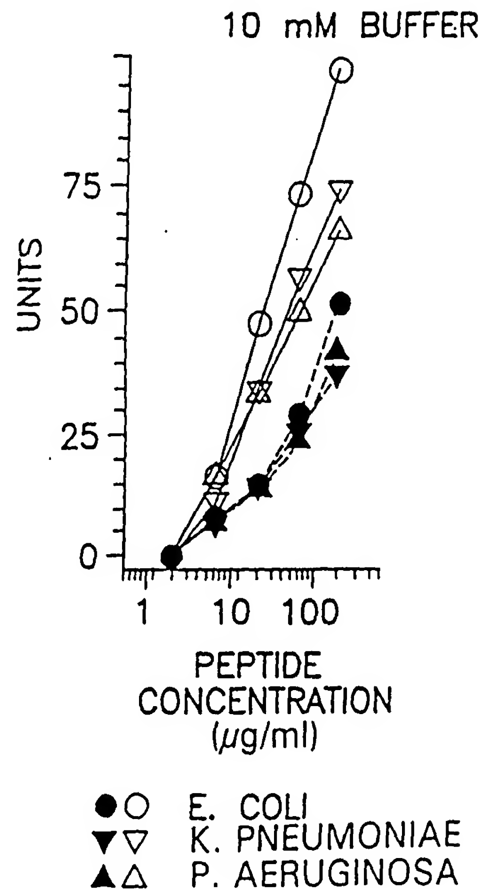


FIG. 16a

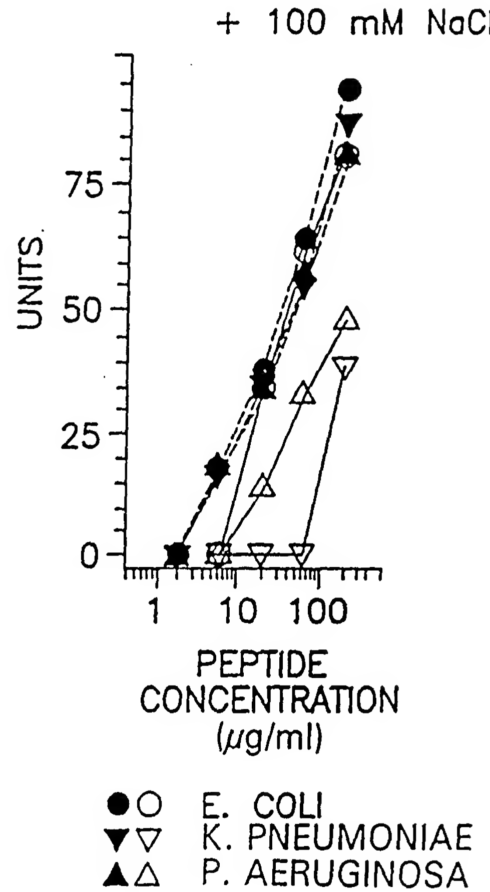


FIG. 16b

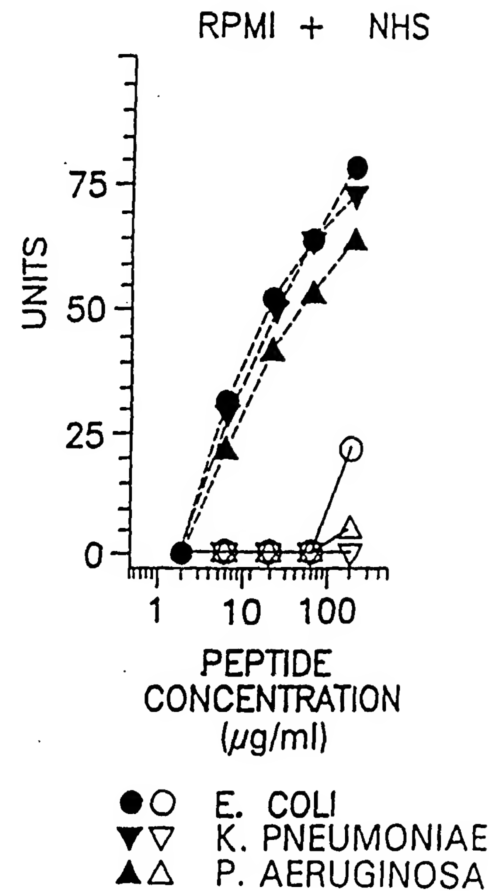


FIG. 16c